

2½", 3½" - 1009 Pressure Gauge

FEATURES

- **PLUS!™** Performance (optional) dampens vibration, shock and pulsation effects
- PowerFlex™ movement provides superior resistance to vibration, shock, and pulsation
- True Zero™ reduces reading errors by using a "zero box" instead of conventional dial pins
- Wide selection of connections



SPECIFICATIONS

Accuracy:	±1% of span (Dry) (ASME B40.100 Grade 1A) ±1.5% of span (Liquid filled)
Process Connection Location:	Lower, lower back, top, 3 o'clock, 9 o'clock
Ranges:	AW: Vacuum, compound to 1,000 psi SW: Vacuum, compound to 15,000 psi
Movement:	304 SS with glass filled polyester segment
Window Material:	Polycarbonate
Pointer:	Black, aluminum
Weather Protection:	IP65 (Plug closed), IP54 (Plug vented) NEMA 4 (Plug closed)
Mounting Option:	U-clamp, front or back flange
Dampening:	Liquid fill or PLUS!™ Performance

WETTED COMPONENTS

Model	Bourdon Tube	Process Connection Material
SW	316L SS	316L SS
AW	316L SS	Aluminum bronze

NON-WETTED COMPONENTS

Case	Ring (bayonet removable)
304 SS	304 SS
316L SS (optional)	316L SS (optional)

MIN/MAX TEMPERATURE LIMITS

Version	Ambient	Process	Storage
Dry	-40°F to 200°F (-40°C to 93°C)	-40°F to 250°F (-40°C to 121°C)	-40°F to 250°F (-40°C to 121°C)
PLUS!™	-40°F to 150°F (-40°C to 66°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 150°F (-40°C to 66°C)
Glycerin Fill	20°F to 150°F (-7°C to 66°C)	20°F to 200°F (-7°C to 93°C)	0°F to 150°F (-18°C to 66°C)
Silicone Fill	-40°F to 150°F (-40°C to 66°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 150°F (-40°C to 66°C)
Halocarbon® Fill	-40°F to 150°F (-40°C to 66°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 150°F (-40°C to 66°C)



1009SW Duralife®
2½" dial size



1009AW Duralife®
2½" dial size



1009SW Duralife®
3½" dial size



1009AW Duralife®
3½" dial size



2½", 3½" - 1009 Pressure Gauge

ORDERING CODE:	Example:	251009	SW	L	02	L	XC4	100#
Dial Size/Model Code								
251009 - 2½" SS case		251009						
351009 - 3½" SS case								
System								
AW - 316L SS tube/Aluminum, bronze connection (max. pressure 1,000 psi)								
SW - 316L SS tube/316L SS process connection (max. pressure 15,000 psi)			SW					
Case Fill								
Blank - Dry gauge								
L - Liquid filled case (glycerin standard)				L				
Process Connection Size								
02 - ¼ NPT Male					02			
04 - ½ NPT Male								
RW - SAE - 47/16" - 20 Straight thread with washer, O-ring and nut								
EJ - 7/16" X 20 UNF-3A 37° flare								
KJ - ¼" Straight JIS, BSP - 1009SW								
KA - ¼" Tapered JIS, BSP - 1009SW								
13 - G ¼" DIN								
JP - ¼" Tubing, N/A with throttle plug, N/A ranges above 6,000 psi								
JQ - 6mm Tubing, N/A with throttle plug, N/A ranges above 6,000 psi								
JL - 9/16" 18 UNF-2A, N/A on 25 1009 lower								
Process Connection Location								
L - Lower						L		
B - Lower back								
D - Side (3 o'clock)								
E - Side (9 o'clock)								
T - Top								
Options (if choosing an option(s) must include an "X")							X	
C4 - Individual calibration chart (in accordance with ASME B 40.100 Accuracy of unit traceable to NIST)								C4
LL - PLUS! ™ Performance								
GV - Silicone case fill								
GX - Halocarbon® case fill								
TU - Throttle plug, (1,000 psi max pressure)								
TS - Throttle screw, (15,000 psi max pressure)								
6B - Cleaned for oxygen service (SW system only)								
SG - Safety glass								
EO - Adjustable red set hand, (N/A with liquid fill)								
SH - Red set hand, stationary								
NH - SS tag wired to case								
FF - Front flange								
BF - Back flange								
UC - U-clamp								
SM - All SS movement								
YW - 316L SS case and ring								
Range (see range table on page 34 for all standard ranges)								
100# - 100 psi								100#

ORDERING CODE:	Example:	45	1009	A	L	02	L	XC4	100#
Dial Size									
45 - 4½" SS gauge		45							
60 - 6" SS gauge									
Model Code									
1009 - 304 SS case, open front			1009						
System									
A - Phosphor bronze tube/brass process connection, (1,000 psi max.)				A					
S - 316L SS tube/316L SS process connection, (20,000 psi max.)									
P - K-Monel [®] 500 tube, Monel [®] 400 process connection, (30,000 psi max.)									
Case Fill									
Blank - dry gauge									
L - Liquid filled case (glycerin standard)					L				
Process Connection Size									
02 - ¼ NPT Male, max pressure 20,000 psi						02			
04 - ½ NPT Male, max pressure 20,000 psi									
09 - ⅝"-18 UNF-2B Aminco [®] high pressure fitting, (standard for pressures over 20,000 psi)									
Process Connection Location									
L - Lower							L		
B - Lower back									
Options (if choosing an option(s) must include an "X")									
C4 - Individual calibration chart (in accordance with ASME B 40.100 Accuracy of unit traceable to NIST)								X	C4
LL - PLUS! [™] Performance									
GV - Silicone case fill									
GX - Halocarbon [®] case fill									
LJ - Hermetically sealed									
TS - Throttle screw (standard with hermetically sealed or liquid filled gauge)									
6B - Cleaned for oxygen service (SW system only)									
PD - Plastic window (standard with hermetically sealed or liquid filled gauge)									
SG - Safety glass									
EP - Maximum pointer, adjustable (not available with liquid fill)									
EO - Adjustable red set hand, (N/A with liquid fill)									
SH - Red set hand, stationary									
NH - SS tag wired to case									
FF - Front flange									
BF - Back flange									
UC - U-clamp									
SM - All SS movement									
Range (see range table on page 34 for all standard ranges)									
100# - 100 psi									100#

Standard Pressure Ranges

Single Scale Models: 1008S, 1009, 1010, 1017, 1020 & 2008						Notes
	psi	bar	kPa	MPa	kg/cm ²	
Vacuum	30IMV	N1BR	N100KP	N0.1MP	N1KG	
	-	N1/0.6BR	N100/60KP	N0.1/0.06MP	N1/0.6KG	
Compound	30IMV&15#	-	-	-	-	
	-	N1/1.5BR	N100/150KP	N0.1/0.15MP	N1/1.5KG	
	30IMV&30#	-	-	-	-	
	-	N1/3BR	N100/300KP	N0.1/0.3MP	N1/3KG	
	30IMV&60#	-	-	-	-	
	-	N1/5BR	N100/500KP	N0.1/0.5MP	N1/5KG	
	-	-	-	-	-	
	30IMV&100#	-	-	-	-	
	-	N1/9BR	N100/900KP	N0.1/9MP	N1/9KG	
	15#	1BR	100KP	0.1MP	1KG	
-	1.6BR	160KP	0.16MP	1.6KG		
30#	-	-	-	-		
-	2.5BR	250KP	0.25MP	2.5KG		
60#	4BR	400KP	0.4MP	4KG		
-	6BR	600KP	0.6MP	6KG		
100#	-	-	-	-		
-	10BR	1000KP	1MP	10KG		
160#	-	-	-	-		
200#	-	-	-	-		
-	16BR	1600KP	1.6MP	16KG		
300#	-	-	-	-		
-	25BR	2500KP	2.5MP	25KG		
400#	-	-	-	-		
600#	40BR	4000KP	4MP	40KG		
800#	-	-	-	-		
-	60BR	6000KP	6MP	60KG		
1000#	-	-	-	-		
1500#	100BR	10000KP	10MP	100KG		
2000#	-	-	-	-		
-	160BR	16000KP	16MP	160KG		
3000#	-	-	-	-		
-	250BR	25000KP	25MP	250KG		
4000#	-	-	-	-		
5000#	-	-	-	-		
6000#	400BR	40000KP	40MP	400KG		
-	600BR	60000KP	60MP	600KG		
8000#	-	-	-	-		
10000#	-	-	-	-		
15000#	1000BR	100000KP	100MP	1,000KG		
20000#					4½", 6" 1009, 1010, 1017 SS systems only	
30000#					4½", 6" 1009, 1010, 1017 Monel [®] systems only	